

## PhD THESIS

- Probabilistic Reasoning for Complex Systems, A.J. Pfeffer. PhD Thesis, Stanford University, January 2000.  
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## BOOK CHAPTERS

The Design and Implementation of IBAL: A General-Purpose Probabilistic Language,  
A. Pfeffer.  
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- Representations and Solutions for Game-Theoretic Problems, D. Koller and A.J. Pfeffer. *Artificial Intelligence*, 94(1), July 1997, pages 167--215.
- Mariposa: A Wide-Area Distributed Database System, M. Stonebraker, P.M. Aoki, W. Litwin, A. Pfeffer, A. Sah, J. Sidell, C. Staelin and A. Yu. *VLDB Journal*, 5(1), January 1996, pages 48-63.

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- Global/Local Dynamic Models  
Avi Pfeffer, Subrata Das, David Lawless, Brenda Ng  
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- Approximate Separability for Weak Interaction in Dynamic Systems  
Avi Pfeffer  
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- Predicting People's Bidding Behavior in Negotiation  
Ya'akov Gal and Avi Pfeffer  
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- Signal to Score Music Transcription Using Graphical Models  
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Brenda Ng, Avi Pfeffer and Richard Dearden  
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- Functional Specification of Probabilistic Process Models  
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- Asynchronous Dynamic Bayesian Networks  
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*Proceedings of the 20th Conference on Uncertainty in Artificial Intelligence*, Edinburgh, July 2005.
- Factored Particle Filtering for Data Fusion and Situation Assessment in Urban Environments  
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*Eight International Conference on Information Fusion*, Philadelphia, July 2005.
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- Emir Kapanci and Avi Pfeffer,  
*International Conference on Computer Music (ICMC)*, 2004.
- Social preferences in relational context  
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  - Reasoning about Rationality and Beliefs  
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  - Learning Social Preferences in Games  
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*National Conference on Artificial Intelligence (AAAI)*, San Jose, California, July 2004.
  - Repeated Observation Models  
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  - Loopy Belief Propagation as a Basis for Communication in Sensor Networks  
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  - A Language for Representing Agents' Decision Making Processes in Games  
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*Proceedings of the Second International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, Melbourne, July 2003.
  - Learning Style-Specific Rhythmic Structures  
Emir Kapanci and Avi Pfeffer.  
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  - Bayesian Information Extraction Network  
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  - Bayesian Network for Syntactic Categorization of Novel Words  
Leonid Peshkin, Virginia Sasova and Avi Pfeffer.  
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  - Factored Particles for Scalable Monitoring  
Brenda Ng, Leonid Peshkin and Avi Pfeffer.  
*Proceedings of the 17th Conference on Uncertainty in Artificial Intelligence (UAI)*, Edmonton, July 2002.
  - Learning and Decision-Making for Intention Reconciliation, Sanmay Das, Barbara Grosz and Avi Pfeffer.  
*Proceedings of the First International Joint Conference on Autonomous Agents and Multi-Agent Systems*, Bologna, July 2002.
  - Stochastic Lambda Calculus and Monads of Probability Distributions, N. Ramsey and A. Pfeffer, *Principles of Programming Languages (POPL)*, 2002.
  - Sufficiency, Separability and Temporal Probabilistic Models, A. Pfeffer, *Uncertainty in Artificial Intelligence (UA)*, 2001.
  - IBAL: A Probabilistic Rational Programming Language, A. Pfeffer. *International Joint Conference on Artificial Intelligence (IJCAI)*, 2001.
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1. Colored Trails: A Formalism for Investigating Decision-Making in Strategic Environments  
Ya'akov Gal, Barbara Grosz, Sarit Kraus, Avi Pfeffer and Stuart Shieber.  
*IJCAI Workshop on Reasoning, Representation and Learning in Computer Games*, August 2005.
2. Specifying and Monitoring Market Mechanisms using Rights and Obligations,  
Loizos Michael, David Parkes and Avi Pfeffer.  
*AAMAS Workshop on Agent Mediated Electronic Commerce*, July 2004.
3. A Language for Opponent Modeling in Repeated Games,  
Ya'akov Gal and Avi Pfeffer.  
*AAMAS Workshop on Decision-Theoretic and Game-Theoretic Agents*, July 2003.
4. A Bayesian Language for Cumulative Learning, A. Pfeffer. *AAAI Workshop on Learning Statistical Models from Relational Data*, July 2000.



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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. Learning approaches for detecting and tracking news events  
Yang, Y.; Carbonell, J.G.; Brown, R.D.; Pierce, T.; Archibald, B.T.; Liu, X.;  
Intelligent Systems and Their Applications, IEEE [see also IEEE Intelligent Systems]  
Volume 14, Issue 4, July-Aug. 1999 Page(s):32 - 43  
Digital Object Identifier 10.1109/5254.784083  
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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20040030687" and (transverse\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 15:01
L2	1	"20050022114" and (aggregat\$3 or sum\$4 or summariz\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:29
L3	1586	(aggregat\$5 with relationship\$1) and @ad<"20020301"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 12:56
L4	944	(aggregat\$5 near6 relationship\$1) and @ad<"20020301"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 12:56
L5	27	((aggregat\$5 near6 relationship\$1) and (document\$1 with extract\$4) ) and @ad<"20020301"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:39
L6	2	L5 and ontology	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 12:58
L7	1	"6694307".pn. and (aggregat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 12:59
L8	1	"6694307".pn. and (aggregat\$5 same relationship\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:24

## EAST Search History

L9	1	"20040030687" and (extract\$3 with position\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:30
L10	1	"6694307".pn. and position	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:29
L11	0	"6694307".pn. and axiom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:29
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L14	1	"20040030687" and axiom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:30
L15	2	((extract\$3 with position\$1 with inference) and (document\$1 with extract\$4) ) and @ad<"20020301"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:40
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L17	1	"5628008".pn. and inference	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 13:42
L18	1	"20050022114" and sum\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 14:19
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L20	53	((sum\$4 with (document\$1 or results or search\$2 ) same (list\$3 with result\$1)) and (document\$1 with extract\$4) ) and @ad<"20020301"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 14:21
L21	1	"20040030687" and (superordinate or subordinate or relational or (different adj vocabularies))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 15:02
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S2	2	"20040030687"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 11:42
S3	2	"20030177112" and (ontology or ontological or web)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/27 14:57

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S4	71	((ontological\$3 or ontology) same web) and @ad<"20020201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/27 16:18
S5	71	S4 and (ontology or ontological\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/27 16:02
S6	1	"6886129".pn. and (ontology or ontological\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/27 16:02
S7	8	((((Extract\$4 near5 rule\$1) same (ontology or ontological)) and (Tag\$1 or HTML or URL) ) and @ad<"20020201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/27 16:24
S8	3	((((Extract\$4 near5 rule\$1) same (ontology or ontological)) and (Tag\$1 with URL) ) and @ad<"20020201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/27 16:25
S9	13	((((Extract\$4 near5 rule\$1) and ((ontology or ontological) with (term\$1 or vocabular\$3) )) and (Tag\$1 with URL) ) and @ad<"20020201"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 09:48
S10	2	"20050022114"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 09:23
S11	2	"20030115189"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 09:49



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S12	2	"20050022114"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 11:22
S13	1	"20040030687" and catalog	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/28 12:46